

Test Report

EN 927-5

Report No.: 175962-13



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Page 1 of 1
bkv/jos/hbs
Order no.: 175962
No. of appendices: 1

Assignor: Teknos Oy
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Material: The test specimens were treated according to assignor's directions:
2 x TN 3330-42 Base 3. Spraying 133 (120-146) g/m²

Sampling: The test material was sampled by the client and received at the Danish Technological Institute on 02-03-2023.

Method: EN 927: Paints and varnishes - Coating materials and coating systems for exterior wood Part 5:2006. Assessment of the liquid water permeability.

Period: The testing was carried out from 04-04-2023 to 15-04-2024.
Water permeability test took place from 12-04-2024 to 15-04-2024.

Test Panels:	Average (min-max)	Unit
Wood density (12% MC)	455 (440-477)	kg/m ³
TN 3330-42 Base 3	127 (120-132)	g/m ²
TN 3330-42 Base 3	135 (128-146)	g/m ²
Dry film thickness	79 (70-90)	µm
Water absorption after 72 hours	122 (116-126)	g/m ²
- standard deviation	4	g/m ²
- coefficient of variation	3	%
Reference panels (test of sealer):		
Wood density (12% MC)	443 (410-482)	kg/m ³
Water absorption after 72 hours	26 (23-29)	g/m ²

Assessment: According to EN 927-2:2022. Part 2: Performance specification. The tested system performs as 'Stable' regarding water absorption (≤ 175 g/m²).

Validity: Water absorption after 72 hours on reference specimens was ≤ 30 g/m². The test is valid.

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2017) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

**Date/place
Signature:**

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DIGITALLY SIGNED DOCUMENT

24 April 2024

DANISH TECHNOLOGICAL INSTITUTE



TEST Reg.no. 2

Detailed results

Order no.: 175962
Appendix: 1
Page: 1 of 1
Initials: bkv/jos/hbs

Substrate: Norway spruce (*Picea abies* (L.) Karst.).

Material specification: TN 3330-42 Base 3. RAL-9005. ID 10001434. Lot 389717-201.
Treatment:

Coat	Trade name	Type	Application method and date	Recommended amount [g/m ²]
1	TN 3330-42 Base 3	Primer/ Intermediate	Spraying 04-04-2023	120-146
2	TN 3330-42 Base 3	Primer/ Intermediate	Spraying 05-04-2023	120-146

Results:

Test panels							
Panel no.	401		402		403		Average
Density [kg/m ³]	447		477		440		455
Application data							
Coat 1 [g/m ²]	120		132		127		127
Coat 2 [g/m ²]	128		130		146		135
Dry film thickness							
Thickness [μm]	75 / 75 / 80 / 75 / 85		75 / 80 / 75 / 70 / 80		85 / 85 / 80 / 90 / 80		79
Std.dev. [μm]	5		4		4		5
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m ²]	121	116	120	126	125	126	122
Std.dev. [g/m ²]	4						
COV [%]	3						
Reference panels (test of sealer)							
Panel no.	R101		R102		R103		Average
Density [kg/m ³]	436		482		410		443
Water absorption							
	A	B	A	B	A	B	Average
Absorption [g/m ²]	26	25	29	27	23	26	26
Std.dev. [g/m ²]	2						
COV [%]	8						